

Figure 1: 5Nines:5Minutes High Availability Configuration

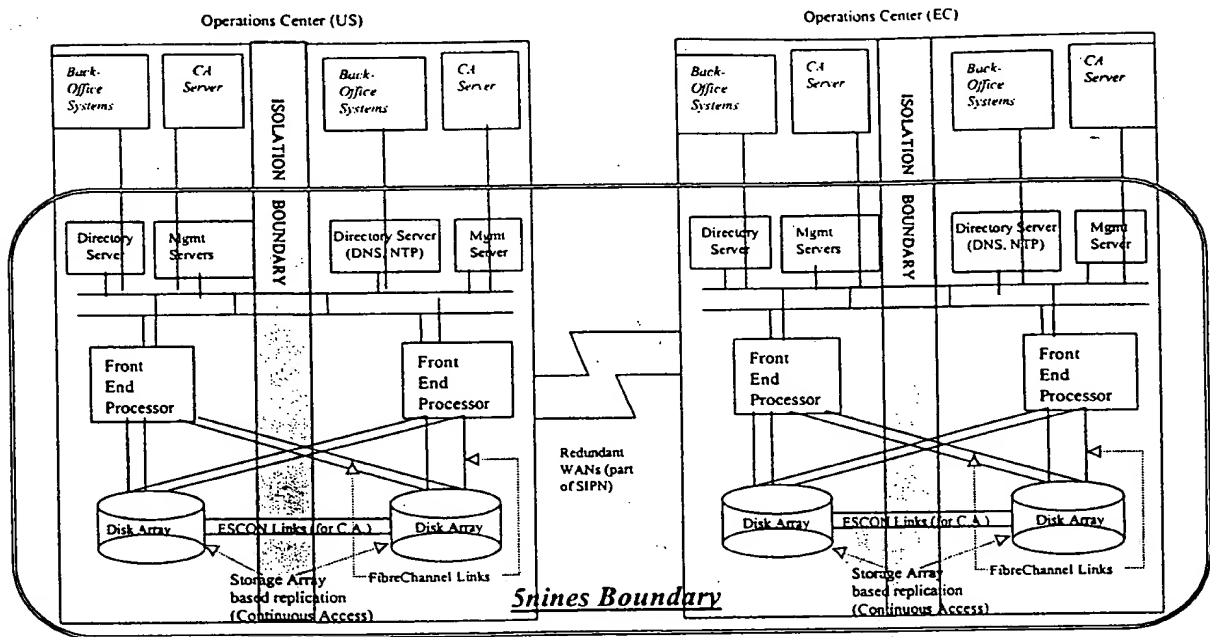


Figure 2: 5nines Architecture Overview – Physical Systems View

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The components that are described in this document map onto the systems shown above as follows:

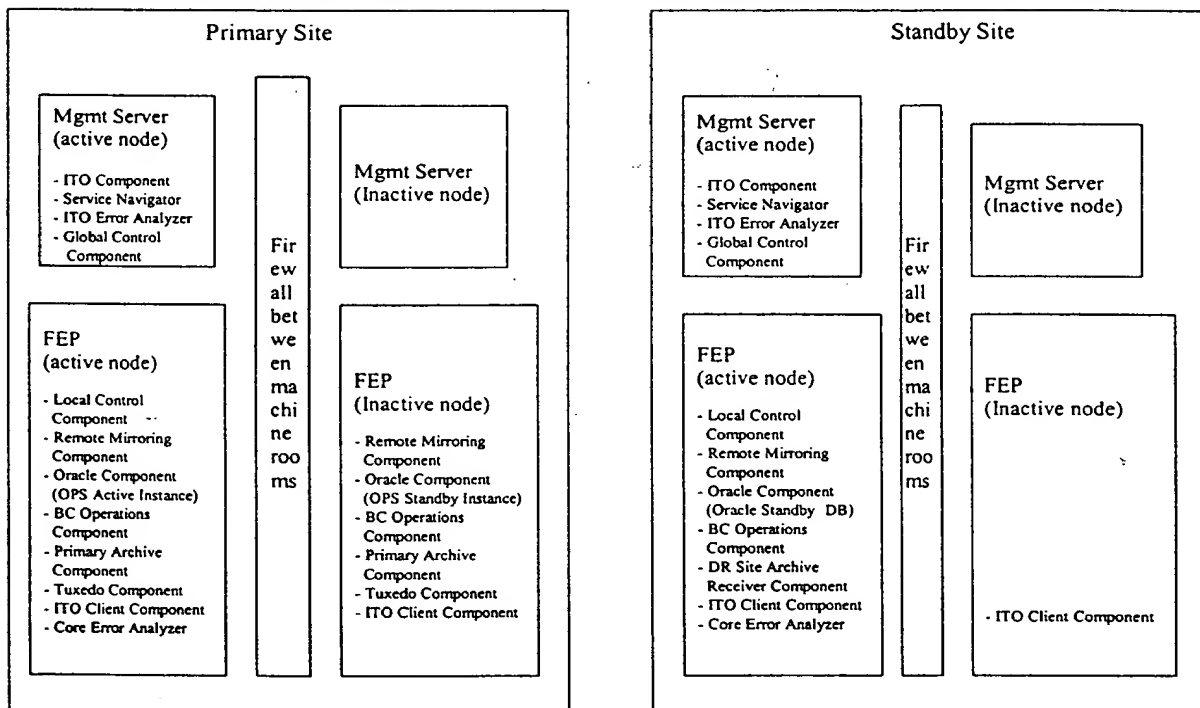


Figure 3: Mapping of Control Components to Physical Systems

## Sample Service Navigator Displays

HP OpenView IT/Operations [15.13.109.71] [opc\_odm]

File Edit View Actions Window Help

Operation View

Nodes  
Message Groups  
Applications  
Services

- Site US
  - Site NL
    - FEP Service
      - US Site
        - Global Control US
          - Primary US FEP Service
          - DR US FEP Service
        - NL Site
          - Global Control NL
            - Primary NL FEP Service
              - Cluster NL
                - OPS DB Instance 1
                - OPS DB Instance 2
                - System 2
              - OPS Archiver Instance 1
              - OPS Archiver Instance 2
              - Tuxedo Instance 1
              - Tuxedo Instance 2
              - Tuxedo Access Service
              - Remote Mirroring
              - Business Copy
            - DR NL FEP Service
              - Cluster NL
                - System 1
                - System 2
              - OPS Database
              - OPS Archive Receiver
              - Remote Mirroring Sender
              - Business Copy
              - Cluster NL
                - System 1
                - System 2

Active Messages

Severity	SUIADONE	Date	Time	Node	Application	MsgGrp	Count
Major	--X----	11/19/99	2:23:57 PM	hp5902.cu...	SNMPTTraps	SNMP	15
Major	--X----	11/19/99	2:19:47 PM	hp5902.cu...	SNMPTTraps	SNMP	15
Warning	--X----	11/19/99	11:58:00 AM	hp5902.cu...	HP IT/Oper...	OpC	opr
Warning	--X----	11/19/99	9:29:27 AM	hp5902.cu...	HP IT/Oper...	OpC	opr
Major	--X----	11/19/99	5:22:21 AM	hp5902.cu...	state	state	o
Major	--X----	11/19/99	5:22:11 AM	hp5902.cu...	state	state	o
Major	--X----	11/19/99	4:37:59 AM	hp5902.cu...	state	state	o
Major	--X----	11/19/99	4:06:23 AM	hp5902.cu...	state	state	o
Major	--X----	11/19/99	3:38:03 AM	hp5902.cu...	state	state	o
Major	--X----	11/19/99	3:37:52 AM	hp5902.cu...	state	state	o
Major	--X----	11/19/99	3:30:57 AM	hp5902.cu...	state	state	o
Normal	--X----	11/19/99	3:19:30 AM	ws719432...	Security	Security	Log
Unknown	--X----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS	
Unknown	--X----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS	
Unknown	--X----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS	
Unknown	--X----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS	
Unknown	--X----	11/17/99	11:57:58 AM	hp5901.cu...	usr/sbin/s...	OS	

Ready

Browser displays max 50 messages

Figure 4: Application Service View

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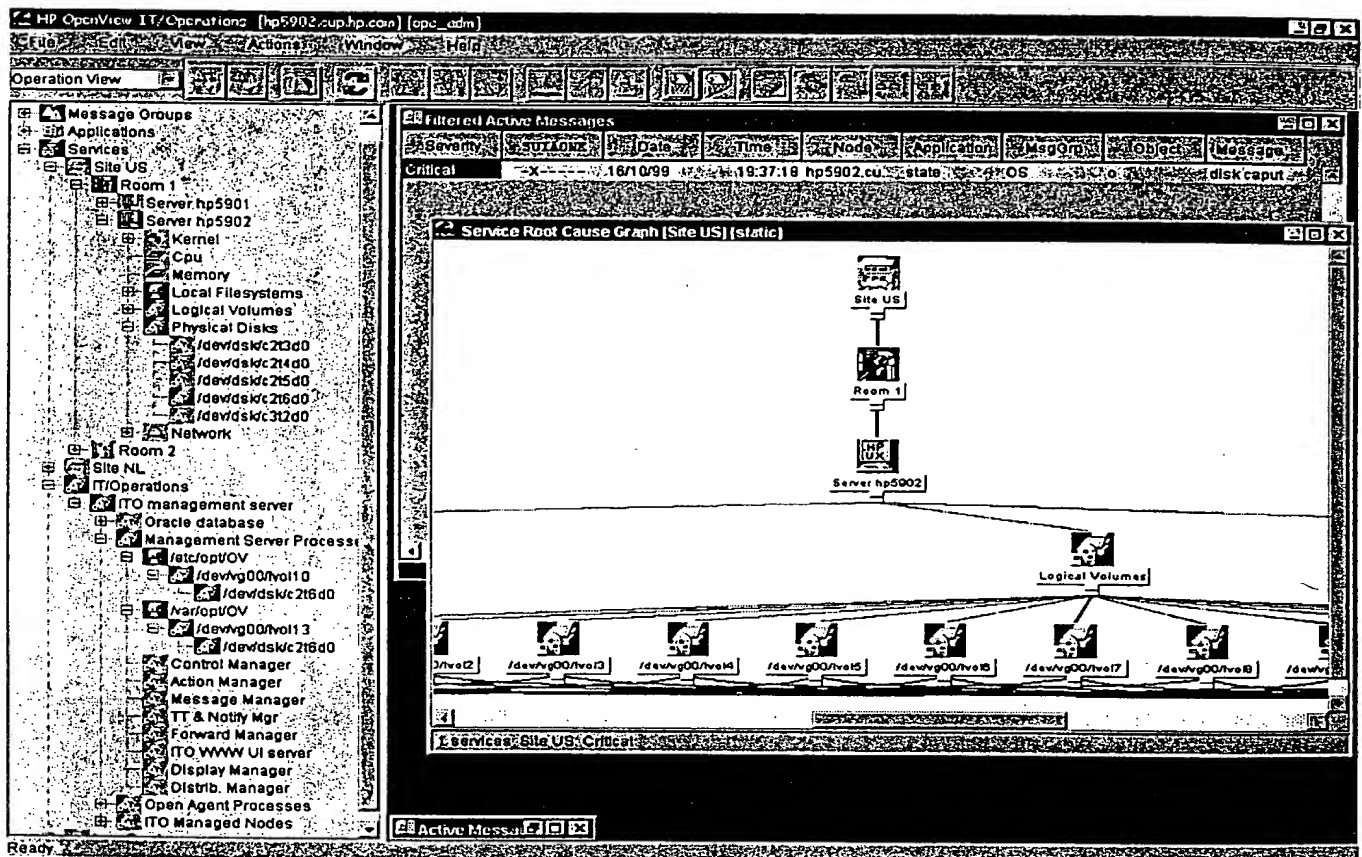


Figure 5 Infrastructure Service View

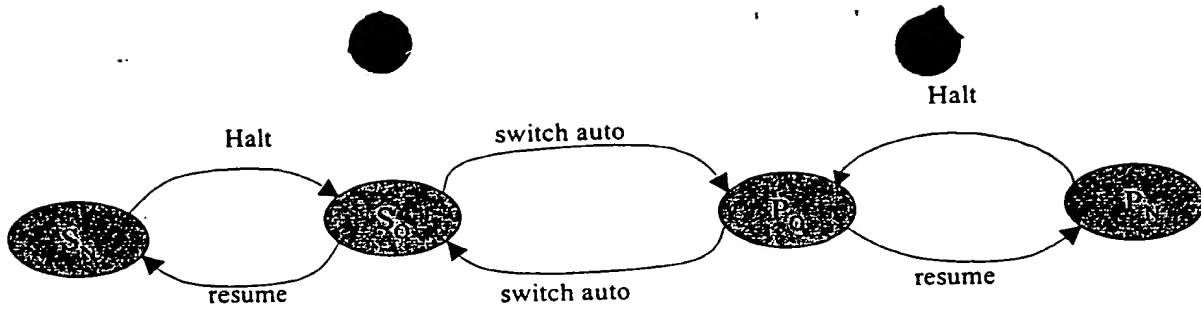
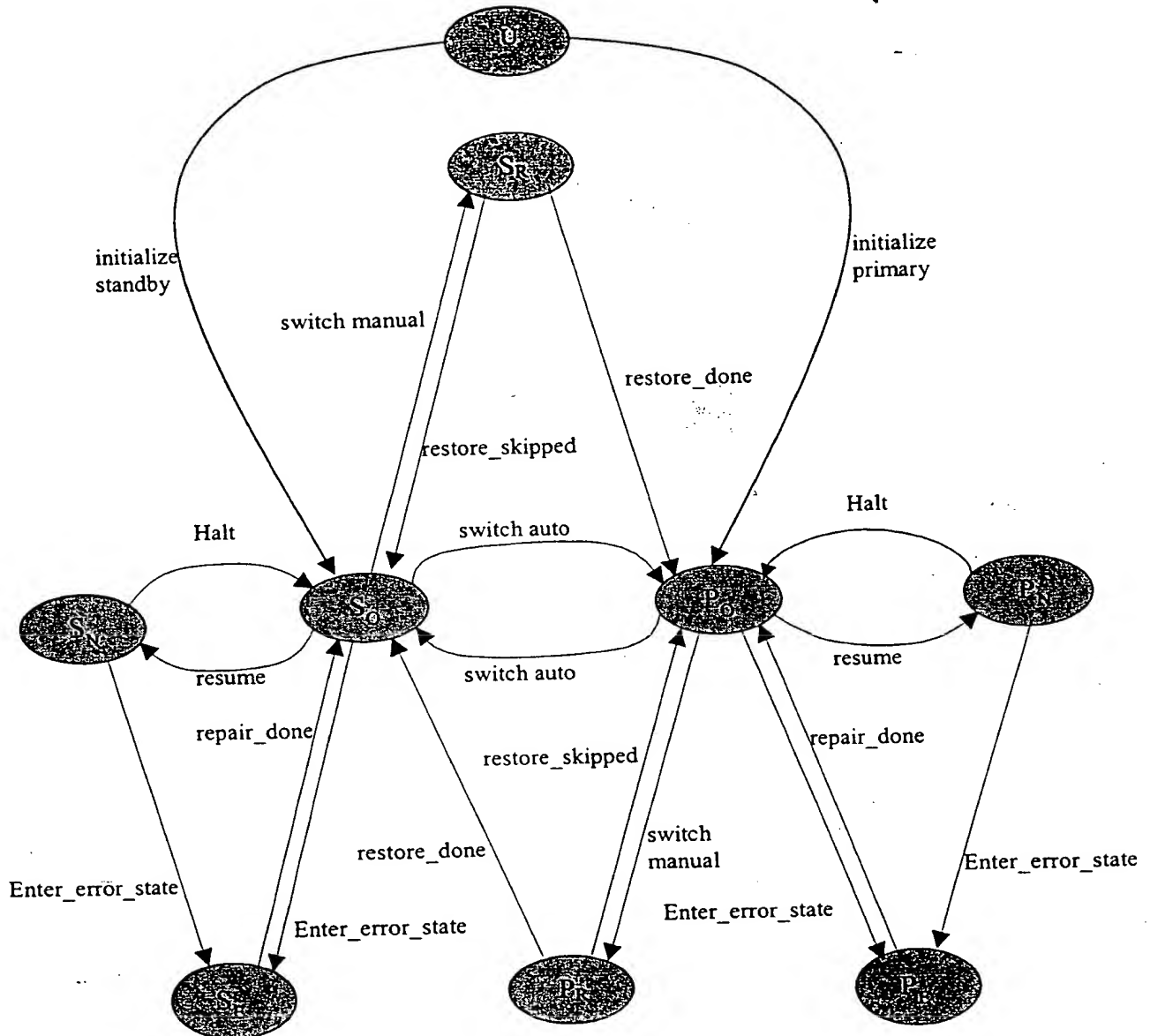


Figure 6: Simplified per-site State Digram

(Note on symbols: S<sub>N</sub> = Standby Normal, S<sub>O</sub> = Standby Offline, P<sub>O</sub> = Primary Offline, P<sub>N</sub> = Primary Normal.)



#### Service Type

U – Uninitialized or ‘big bang’,

P – Primary, S – Standby

Service State ( for P and S )

N – Normal, O – Offline

R – Restore, E – Error

Figure 7: LCC State Transitions

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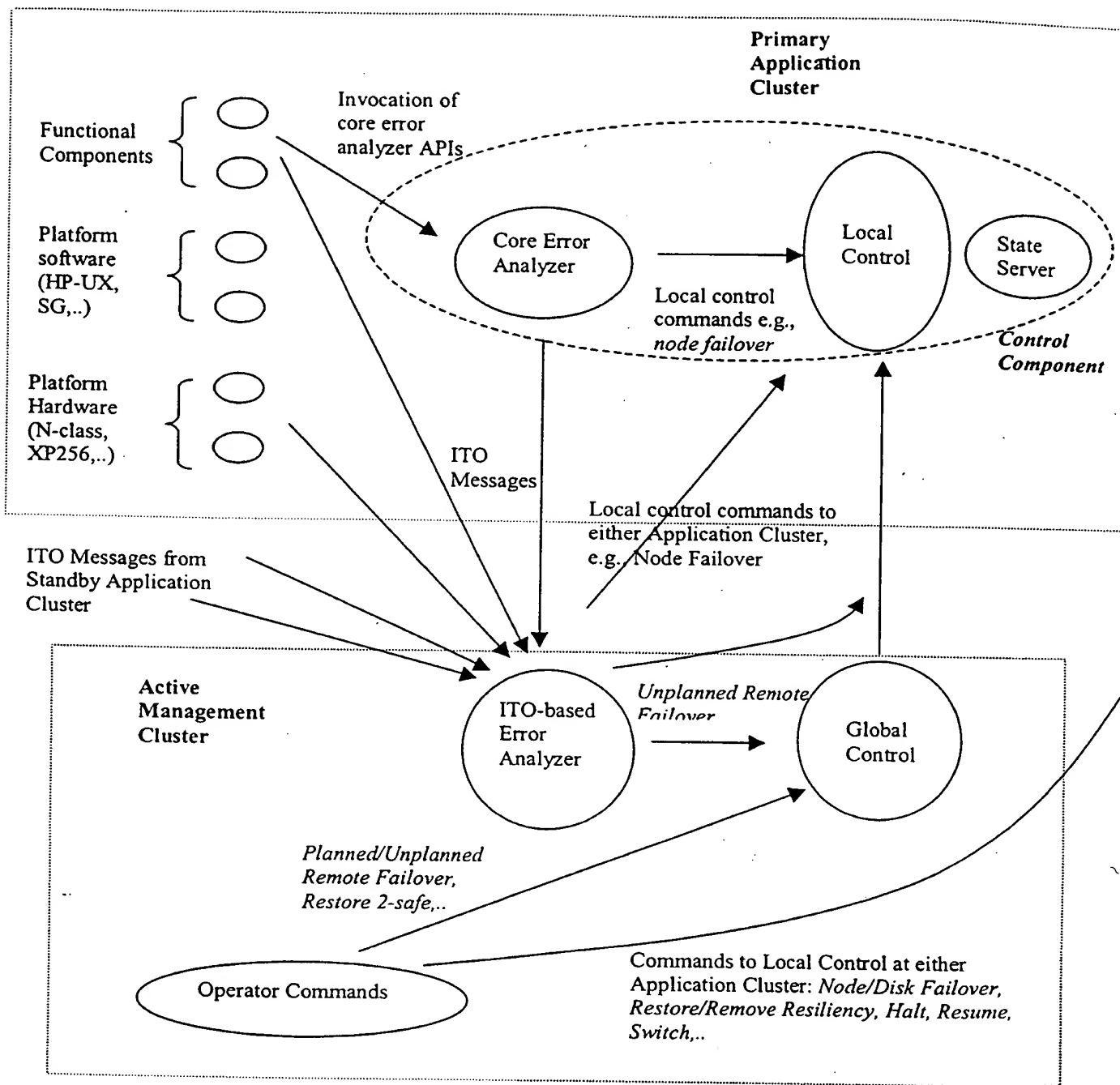


Figure 8: Local Control Environment

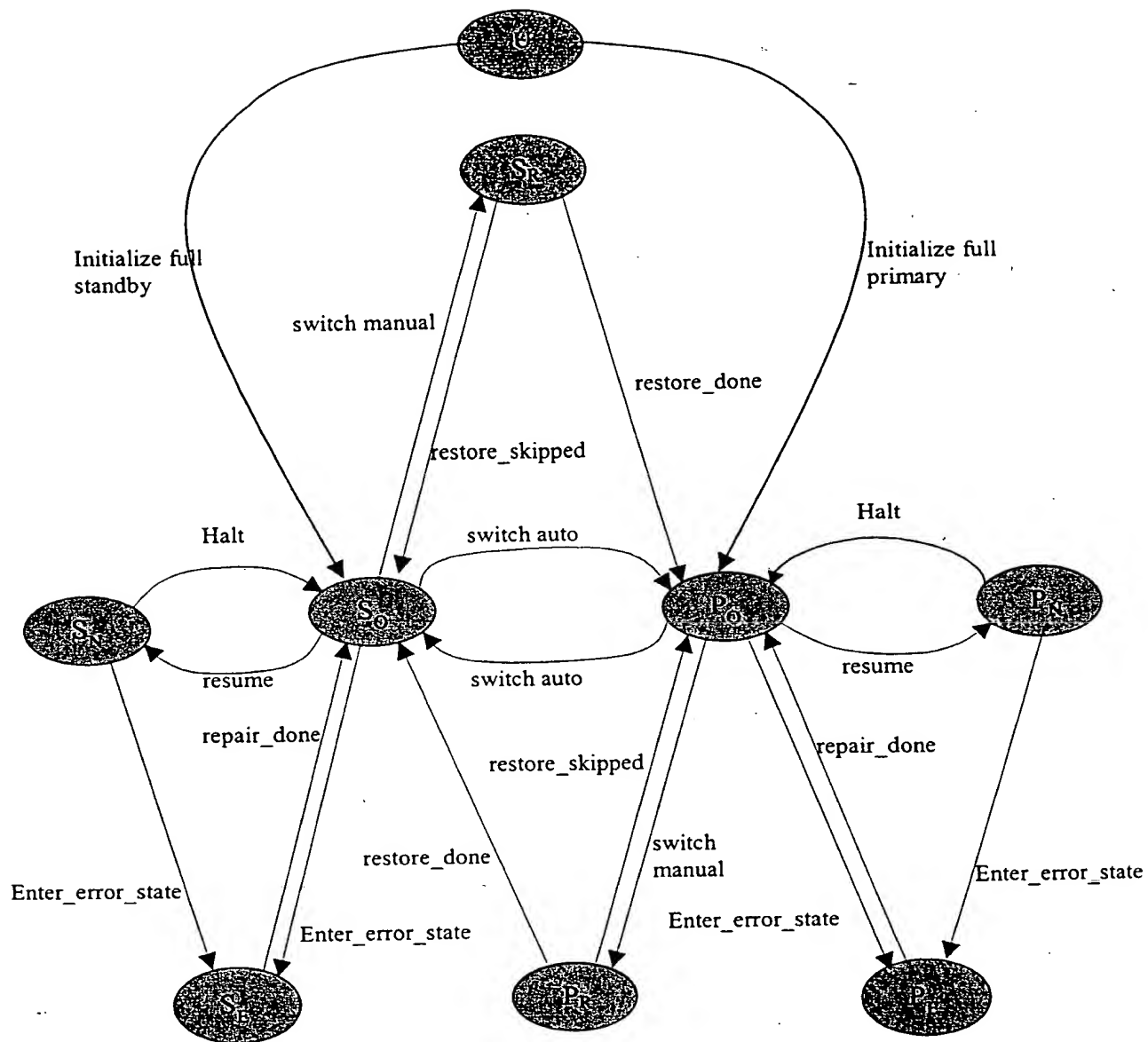


Figure 9: LCC State Transitions